

(b) (6) **CIV USN NAVAIRWARCENACDIV MD (USA)**

From: (b) (6) @navy.mil>
Sent: Friday, April 27, 2018 9:02 AM
To: (b) (6) CIV NAVAIR, 4.3T; (b) (6) CIV NASPATUXENTRIVERMD
4.3.5.1 Aircraft Fire Protection; (b) (6) CIV Air Vehicle Engineering Department,
4.3.5.1; (b) (6) CIV Air Vehicle Engineering, 4.3.5.1; (b) (6) NAVAIR;
(b) (6) CIV NAVAIR 4.4T
Cc: (b) (6) CIV NAVAIR N00019; (b) (6) CIV AIR, 4.0T; (b) (6) CIV
NAVAIR, 4.0 M.1.5
Subject: Engineering Macroscopic Quantum Coherence
Attachments: AIAA 2017-5343_(b) (6).PDF
Importance: High

April 27, 2018

Gentlemen, please recall that in my recently published AIAA paper (AIAA 2017-5343; attached), I stated on page 3:

"It is a well-known facet of quantum field theory that everything can be described in quantum mechanical terms. The complex interactions between a physical system and its surroundings (environment), disrupt the quantum mechanical nature of a system and render it classical under ordinary observation. This process is known as decoherence [3]. However, it is argued that we can retard (delay) decoherence (and possibly even suppress it - namely decouple a physical system from the environment) by accelerated spin and/or accelerated vibration of electrically charged matter under rapid acceleration transients.

This may be the very condition to achieve a state of macroscopic quantum coherence, the idea being that we never let the system achieve thermodynamic equilibrium, by constantly delaying the onset of relaxation to equilibrium (hence the production of maximal entropy is delayed). The system may "violently" react by generating "anomalous" emergent phenomena, such as, but not limited to, inertial mass reduction."

It looks like the following paper, just published in the prestigious Nature Letters, experimentally confirms the importance of high frequency vibrations in achieving "Macroscopic Quantum Coherence"... please see articles on it:

<https://www.mnn.com/green-tech/research-innovations/stories/quantum-entanglement-demonstrated-level-visible-naked-eye>

<https://theconversation.com/experiment-shows-einsteins-quantum-spooky-action-approaches-the-human-scale-95372>

<https://www.nature.com/articles/s41586-018-0038-x>

The implications are incredibly important to the future of NAVAIR S&T, and especially to the affirmative validity of my 'theories'...

Please recall that my Section 219 HEEMFG work considers that by coupling an electrically charged system's high frequency of axial spin (with accelerated vibration), operated in a rapidly accelerated transient mode, we can achieve extremely high electromagnetic field-intensity (EM energy flux) values.

Controlled Motion of electrically charged matter (from solid to plasma) via Accelerated Spin and/or Accelerated Vibration under Rapid Acceleration Transients, can result in high intensity electromagnetic energy flux, thereby resulting in novel energy harvesting and generation techniques and devices.

These devices can greatly enhance NAVAIR/NAWCAD's electronic warfare technologies arsenal.

Furthermore, this work can result in the enablement of Macroscopic Quantum Coherence, that is the engineering of macroscopic states to behave as if quantum mechanical in nature (superposition, entanglement, tunneling, teleportation) - this is revolutionary for the Emerging field of Quantum Technologies, with applications in Quantum Computing, Spintronics, AI., Crypto., etc...

Thank you for your consideration.

Respectfully,

(b)

(b) (6), Ph.D.

(b) (6) Engineer

DoD/DoN/NAVAIR/NAWCAD/AIR 4.3.5.1

NAS Patuxent River, MD. 20670

301 (b) (6)

(b) (6)

CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) CIV NAVAIR N00019 <(b) (6)@navy.mil>
Sent: Monday, January 8, 2018 8:13 AM
To: (b) (6)@uspto.gov
Cc: (b) (6)@gmail.com
Subject: webex meeting for 15/141270 (PAX 205)
Attachments: PAX 205 - EXAMINER DEFENSE BRIEF - PHYSICS.pdf; PAX205 - (b) (6) letter of support 11 Dec 2017.pdf; PAX205 -A IAA 2017-5343_(b) (6) - paper.pdf; PAX205-AIAA 2017 SPACE Forum - (b) (6).pdf; PAX205-SAE 2017-01-2040_(b) (6) - paper.pdf; PAX205 - 2017-01-2040_(b) (6).pdf

Importance: High

Dear Examiner:

In regard to the upcoming Examiner Interview for 15/141,270, scheduled for January 17, 2018 at 10:00 AM, please see attached documents, which we plan to go over during the Interview.

Thank you in advance for your time and consideration.

(b) (6)

(b) (6)

Naval Air Warfare Center Aircraft Division Office of Counsel

(b) (6)

Patuxent River, MD 20670

Tel.: (301) (b) (6)

Fax: (301) (b) (6)

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) CIV AD <(b) (6)@navy.mil>
Sent: Thursday, May 17, 2018 6:41 AM
To: (b) (6) CIV NASPATUXENTRIVERMD 4.3.5.1 Aircraft Fire Protection;
(b) (6) CIV Air Vehicle Engineering Department, 4.3.5.1; (b) (6) CIV
NAVAIR, 4.0 M.1.5
Cc: (b) (6), Air 4.0T; (b) (6) CIV AIR, 4.0T; (b) (6) CIV NAVAIR
N00019
Subject: ENERGY DENSITY INSIDE PROTON IS HIGHER THAN THAT INSIDE NEUTRON STAR
Importance: High

May 17, 2018

Greetings Gentlemen - if this new finding is correct we are on the verge of a true revolution in Physics...and everything else that emerges.

The "Impossible" becomes Conditionally Possible.

"The pressure inside the particles that make up every atom in the universe could be greater than the pressure inside the densest stars, according to a new measurement.

Scientists at Jefferson Lab in Virginia calculated the pressure using the lab's Continuous Electron Beam Accelerator Facility, or CEBAF, and some tricky mathematics. The measurement will mainly be useful for fundamentally understanding these particles' nature. The calculation is pretty mind-boggling."

"Neutron stars are some of the densest objects we know of in the universe,"

(b) (6), Jefferson Lab Hall B leader, told Gizmodo. "It's an order of magnitude bigger than that. It could be the record observation of a pressure on Earth."

The researchers calculated the pressure faced by the quarks that make up protons at 10^{35} pascals, equalling 10^{30} times the pressure at sea level, according to the paper published in Nature."

See Article at:

<https://gizmodo.com/scientists-calculate-the-pressure-inside-a-proton-and-i-1826080338>

THIS SHOWS HOW TRULY SIGNIFICANT THE NOTION OF THE VACUUM ENERGY STATE (VES) IS, IN GOVERNING ALL UNIVERSAL PHYSICS.

The VES is the fundamental structure of everything and all, all of physics and physical mechanisms pay homage to its existence.

(b) (6)

(b) (6), Ph.D.

(b) (6) Engineer

DoD/DoN/NAVAIR/NAWCAD/AIR 4.3.5.1

NAS Patuxent River, MD. 20670

301-(b) (6)

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) CIV AD <(b) (6)@navy.mil>
Sent: Wednesday, April 20, 2016 9:41 AM
To: (b) (6) ST, Air 4.0T; (b) (6) NAWCAD, NAVAIR; (b) (6) SES COMNAVAIRSYSCOMPATUXENTRIVERMD
Cc: (b) (6) CIV NAVAIR N00019; (b) (6) CIV NAVAIR 4.4T; (b) (6) (b) (6) CIV NAVAIRSYSCOM 4.4.B; (b) (6) NAVAIR; (b) (6) AIR-4.4.5; (b) (6) CIV NAVAIR, 4.4; (b) (6) CIV NAWCAD TTO B2185
Subject: Advanced Power and Propulsion Concepts accepted by Top Experts
Attachments: IJSPACESE030402 (b) (6).pdf
Importance: High

Greetings,

I wish to bring to your attention a just published paper - herein attached (b) (6) (2015) 'The High Energy Electromagnetic Field Generator', Int. J. Space Science and Engineering, Vol.3, No.4. pp. 312-317), which has great implications as to the feasibility of gravitational (and thus inertial) mass reduction by accelerated Spin and accelerated Vibration of electrically charged systems.

The enablement of extreme craft speeds, and thus the feasibility of intergalactic travel using current engineering materials and methods, is made possible with this publication.

It is my belief that the experimental investigations which this technical paper can initiate may prove fundamental to eventually generating the high electromagnetic energy flux values necessary to locally polarize the Vacuum Energy State, thereby manipulating the local Spacetime topological lattice energy density.

If we can engineer the metastructure of the local quantum vacuum state (comprised of multiple structures), then we can engineer the fabric of our reality at the most fundamental level (thus affecting a physical system's inertial and gravitational properties). This realization would greatly advance the fields of Aerospace Propulsion and Power Generation, eventually making possible our dream of Intergalactic Flight.

What is most unique about this paper is that it has already won the approval of Dr. (b) (6), one of the world's top authorities in Advanced Power and Propulsion / Quantum Vacuum Engineering, who has given his unreserved approval of this paper, calling it "a very good paper". (b) (6) has also forwarded the paper to several of his colleagues, including (b) (6), another top subject matter expert.

This paper espouses a theoretical concept only, and in no way, shape or form reads on any of claims (no engineering enablement is discussed) of Navy Case PAX 182 'Electromagnetic Field Generator and Method to create Electromagnetic Field' (U.S. Patent Application 14/807,943), or Navy Case PAX 205 'The Inertial Mass Reduction Device', recommended for patent application (now titled 'Craft using an Inertial Mass Reduction Device').

One thing is for sure, the existence of this technical paper and its current acceptance by foremost authorities in the field will greatly facilitate the patent examination process, hopefully culminating in two essential patents for the technologically advanced future of the Navy.

Thank you for all your continued support and consideration.

(b) (6)

(b) (6), Ph.D.

(b) (6) Engineer

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuxent River, MD

(301) (b) (6)

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6), Air 4.0T <(b) (6)@navy.mil>
Sent: Tuesday, December 19, 2017 12:37 AM
To: (b) (6) CIV AD; (b) (6) CIV NAVAIR N00019; (b) (6) M CIV AD
Subject: (b) (6) letter of support 11 Dec 2017.pdf
Attachments: (b) (6) letter of support 11 Dec 2017.pdf

(b) (6),

This is the correct letter. Let me know if you want me to send it to (b) (6)

r/ (b) (6)

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) CIV NAVAIR N00019 <(b) (6)@navy.mil>
Sent: Monday, April 18, 2016 2:17 PM
To: (b) (6) M CIV AD
Subject: FW: [Non-DoD Source] PAX-205, Draft-2
Attachments: PAX-205_Draft-2.pdf; Pax 205 - REVISED.doc

Ready to file.

-----Original Message-----

From: (b) (6) [mailto:(b) (6)@ (b) (6).net]
Sent: Monday, April 18, 2016 2:06 PM
To: (b) (6) CIV NAVAIR N00019; (b) (6) M CIV AD
Subject: [Non-DoD Source] PAX-205, Draft-2

(b) (6)

Attached for your review are the updated figures for PAX-205.

Thanks

(b) (6)

(b) (6)
(b) (6), (b) (6) (b) (6)

NOTE: This is a confidential communication and may contain privileged and/or confidential information. If you are not the intended recipient, please delete this message and any attachments, and do not read, copy, retain or disseminate the message or any attachment. Please notify us immediately by e-mail or by calling (b) (6)

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) CIV AD <(b) (6)@navy.mil>
Sent: Monday, February 22, 2016 9:01 AM
To: (b) (6) A CIV NAWCAD TTO B2185
Cc: (b) (6) CIV NAVAIR N00019; (b) (6) M CIV AD; (b) (6) D CIV
NSWCCD, West Bethesda, 00L
Subject: Navy Case PAX 205 - IEB Briefing attached
Attachments: PAX 205 - INERTIAL MASS REDUCTION DEVICE.ppt

Importance: High

Good morning (b) (6),

Please see the attached IEB briefing on the subject of Navy Case PAX 205 - The Inertial Mass Reduction Device.

Please forward this document to all members of the Invention Evaluation Board who will be in attendance at my presentation on February 29, 2016.

If possible, please focus their attention at the concept description paper, imbedded on Slide 2 of the attached presentation.

It is truly important that the IEB members understand the physical concept (original and revolutionary in nature) that this invention is based on, namely:

[It is possible to reduce the inertial mass and hence the gravitational mass, of a system/object in motion, by an abrupt perturbation of the non-linear background of local Spacetime, equivalent to an accelerated excursion far from thermodynamic equilibrium (analogous with Symmetry-breaking induced by abrupt changes of state/phase transitions)].

Thank you for all your assistance, I look forward to seeing you there.

(b) (6)

(b) (6), Ph.D.

(b) (6) Engineer

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuxent River, MD

(301) (b) (6)

THERE ARE NO UNIVERSAL IMPOSSIBILITIES, ONLY CONDITIONAL POSSIBILITIES.

(b) (6)

CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6)@USPTO.GOV
Sent: Thursday, December 7, 2017 8:21 AM
To: (b) (6) CIV NAVAIR N00019
Cc: (b) (6)@USPTO.GOV
Subject: [Non-DoD Source] USPTO Automated Interview Request (AIR): Successfully forwarded request to Examiner for US Application Number 15141270

Your Automated Interview Request for application number 15141270 for 1-17-2018 10:00 AM ET has been processed and forwarded to the Examiner. You will receive a communication from the Examiner within 2 business days from this email via either (b) (6) or (b) (6)@navy.mil.

By submitting this interview request, you have certified:
This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

If you do not receive a communication from the Examiner within 2 business days, please contact the Examiner, the Examiner's supervisor or an Interview Specialist (<http://www.uspto.gov/patent/laws-and-regulations/interview-practice/interview-specialist>).

Additional interview policy information may be found on our website at: <http://www.uspto.gov/patent/laws-and-regulations/interview-practice>

If an interview is conducted, both you and the Examiner will be receiving an Interview Satisfaction Survey in order to get your opinions on the conducted interview. By filling out the survey, you will be helping to improve both Applicant's and Examiner's interview experiences in the future.

Thank you for using the USPTO AIR.

Please do not reply to this message; it was sent from an unmonitored e-mail address.

(b) (6)
CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6) M CIV AD <(b) (6)@navy.mil>
Sent: Thursday, April 28, 2016 5:12 PM
To: (b) (6) CIV AD
Cc: (b) (6) CIV NAWCAD TTO B2185; (b) (6) M CIV AD; (b) (6)
(b) (6) CIV NAVAIR N00019
Subject: Patent Application Filed! (PAX 205 / Application # 15141270)

The patent application relating to your invention has now been filed with the United States Patent & Trademark Office! Application / Serial #15141270 was filed on April 28, 2016.

Our mission is to protect the Navy's intellectual property from claims by third parties by patenting Navy inventions and to leverage Navy technology through technology transfer.

Your incentive award is being processed and you should receive your payment soon. Thank you so much for your cooperation!

Should you have any questions or concerns, please feel free to contact me.

Thank you and have a great day!

~~~~~  
(b) (6)  
(b) (6)  
Office of Counsel, NAWCAD  
(b) (6)  
Patuxent River, MD 20670  
Phone: (301) (b) (6)  
Fax: (301) (b) (6)  
E-mail: (b) (6)@navy.mil

(b) (6) CIV USN NAVAIRWARCENACDIV MD (USA)

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**From:** (b) (6) CIV NAVAIR N00019 <(b) (6)@navy.mil>  
**Sent:** Monday, May 9, 2016 1:20 PM  
**To:** (b) (6) M CIV AD  
**Subject:** RE: PAX 205 - Invoice  
**Attachments:** Purchase order FORM to IDI PAX 205.pdf

-----Original Message-----

**From:** (b) (6) M CIV AD  
**Sent:** Monday, May 09, 2016 1:13 PM  
**To:** (b) (6) CIV NAVAIR N00019  
**Cc:** (b) (6) M CIV AD  
**Subject:** FW: PAX 205 - Invoice

Please sign

-----Original Message-----

**From:** (b) (6) CIV NAVAIR 7.8.2.1  
**Sent:** Monday, May 09, 2016 10:43 AM  
**To:** (b) (6) M CIV AD  
**Subject:** RE: PAX 205 - Invoice

Can't think of a better reason than that! (b) (6)

-----Original Message-----

**From:** (b) (6) M CIV AD  
**Sent:** Monday, May 09, 2016 10:34 AM  
**To:** (b) (6) CIV NAVAIR 7.8.2.1  
**Cc:** (b) (6) M CIV AD  
**Subject:** FW: PAX 205 - Invoice

Blaming it on t (b) (6) I'm sorry for the confusion ...

-----Original Message-----

**From:** (b) (6) M CIV AD  
**Sent:** Monday, May 09, 2016 9:48 AM  
**To:** (b) (6) CIV NAVAIR 7.8.2.1  
**Cc:** (b) (6) M CIV AD  
**Subject:** PAX 205 - Invoice

Please sign. Thank you!

~~~~~

(b) (6)
(b) (6)

Office of Counsel, NAWCAD

(b) (6)

Patuxent River, MD 20670

Phone: (301) (b) (6)

Fax: (301) (b) (6)

E-mail: (b) (6)@navy.mil

-----Original Message-----

From: (b) (6) [mailto:(b) (6)@ (b) (6).net]

Sent: Wednesday, April 20, 2016 1:06 PM

To: (b) (6) M CIV AD

Subject: [Non-DoD Source] IDI Invoices

(b) (6),

Attached is a pdf of the invoices for PAX-170 and PAX-205.

Thanks

(b) (6)

(b) (6)

NOTE: This is a confidential communication and may contain privileged and/or confidential information. If you are not the intended recipient, please delete this message and any attachments, and do not read, copy, retain or disseminate the message or any attachment. Please notify us immediately by e-mail or by calling 336 (b) (6)

(b) (6)
CIV USN NAVAIRWARCENACDIV MD (USA)

From: (b) (6), Air 4.0T <(b) (6)@navy.mil>
Sent: Monday, May 2, 2016 12:28 PM
To: (b) (6) CIV AD
Cc: (b) (6) NAWCAD, NAVAIR; (b) (6) CIV NAVAIR N00019;
(b) (6) CIV NAVAIR 4.4T; (b) (6) CIV NAVAIRSYSCOM 4.4.B;
(b) (6) NAVAIR; (b) (6) AIR-4.4.5; (b) (6) CIV NAVAIR, 4.4;
(b) (6) SES COMNAVAIRSYSCOMPATUXENTRIVERMD
Subject: RE: PAX 205 - A Craft Using an Inertial Mass Reduction Device

(b) (6)
(b) (6)
Congratulations!! Now to build a small demo to put the theory into a demo. The sec 219 BAR/TT call is out - could be the genesis of a BAR/TT project.

r/(b) (6)
(b) (6), ST
(b) (6)
Naval Aviation Enterprise

301-(b) (6)

Privacy Act Notice: This e-mail communication may contain information subject to the provisions of the Privacy Act (P.L. 93-579) or may be business sensitive. This data is intended only for the use of the individual(s) addressed above and is to be treated in a confidential manner. If you have received this e-mail in error, please immediately notify me by return e-mail and delete this message from your system.

-----Original Message-----

From: (b) (6) CIV AD
Sent: Friday, April 29, 2016 9:01 AM
To: (b) (6), Air 4.0T
Cc: (b) (6) NAWCAD, NAVAIR; (b) (6) CIV NAVAIR N00019; (b) (6) CIV NAVAIR 4.4T;
(b) (6) CIV NAVAIRSYSCOM 4.4.B; (b) (6) NAVAIR; (b) (6) AIR-4.4.5; (b) (6) CIV
NAVAIR, 4.4; (b) (6) SES COMNAVAIRSYSCOMPATUXENTRIVERMD
Subject: PAX 205 - A Craft Using an Inertial Mass Reduction Device
Importance: High

(b) (6)

Per our latest conversation, I am writing to inform you that Navy Case PAX 205 - 'A Craft Using an Inertial Mass Reduction Device' is now US Patent Application Serial #15141270 ,filed with the United States Patent & Trademark Office on April 28, 2016.

(b) (6) has done an admirable job and produced an exceptional patent application, (b) (6) work is highly commendable.

The inventive concept due to its simplicity and minimalism, despite its advanced quantum vacuum physics, pays homage to Occam's Razor.

Thank you Sir for your recommendation and your continued support.

(b) (6)

(b) (6), Ph.D.

(b) (6) Engineer

DoD/DoN/NAVAIR/NAWCAD AIR 4.4.5.1

NAS Patuxent River, MD

(301)(b) (6)

-----Original Message-----

From: (b) (6) M CIV AD

Sent: Thursday, April 28, 2016 5:12 PM

To: (b) (6) CIV AD

Cc: (b) (6) A CIV NAWCAD TTO B2185, (b) (6) CIV AD, (b) (6) CIV NAVAIR N00019

Subject: Patent Application Filed! (PAX 205 / Application # 15141270)

The patent application relating to your invention has now been filed with the United States Patent & Trademark Office! Application / Serial #15141270 was filed on April 28, 2016.

Our mission is to protect the Navy's intellectual property from claims by third parties by patenting Navy inventions and to leverage Navy technology through technology transfer.

Your incentive award is being processed and you should receive your payment soon. Thank you so much for your cooperation!

Should you have any questions or concerns, please feel free to contact me.

Thank you and have a great day!

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(b) (6)

(b) (6)

Office of Counsel, NAWCAD

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Patuxent River, MD 20670

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